SEQUENCE LISTING

<110> Biochemie Gesellschaft m.b.H.

<120> Production of proteins

<130> G-31109/A/BCK

<140> PCT/EP00/07642
<141> 2000-08-07

<160> 12

<170> PatentIn Ver. 2.1

<210> 1
<211> 168
<212> PRT
<213> Pestivirus sp.

<400> 1

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Met Glu Leu Asn His Phe Glu Leu Leu Tyr Lys Thr Ser Lys Gln Lys
  1               5                  10                  15

Pro Val Gly Val Glu Glu Pro Val Tyr Asp Thr Ala Gly Arg Pro Leu
            20                  25                  30

Phe Gly Asn Pro Ser Glu Val His Pro Gln Ser Thr Leu Lys Leu Pro
        35                  40                  45

His Asp Arg Gly Arg Gly Asp Ile Arg Thr Thr Leu Arg Asp Leu Pro
    50                  55                  60

Arg Lys Gly Asp Cys Arg Ser Gly Asn His Leu Gly Pro Val Ser Gly
65                  70                  75                  80

Ile Tyr Ile Lys Pro Gly Pro Val Tyr Tyr Gln Asp Tyr Thr Gly Pro
                85                  90                  95

Val Tyr His Arg Ala Pro Leu Glu Phe Phe Asp Glu Ala Gln Phe Cys
            100                 105                 110

Glu Val Thr Lys Arg Ile Gly Arg Val Thr Gly Ser Asp Gly Lys Leu
        115                 120                 125

Tyr His Ile Tyr Val Cys Val Asp Gly Cys Ile Leu Leu Lys Leu Ala
    130                 135                 140

Lys Arg Gly Thr Pro Arg Thr Leu Lys Trp Ile Arg Asn Phe Thr Asn
145                 150                 155                 160

Cys Pro Leu Trp Val Thr Ser Cys
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<210> 2
<211> 168
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligo-histidine purification aid combined with

sequence of Pestivirus

<400> 2
Met Ala Ser His His His His His His Pro Val Gly Val Glu Glu
1 5 10 15

Pro Val Tyr Asp Thr Ala Gly Arg Pro Leu Phe Gly Asn Pro Ser Glu
20 25 30

Val His Pro Gln Ser Thr Leu Lys Leu Pro His Asp Arg Gly Arg Gly
35 40 45

Asp Ile Arg Thr Thr Leu Arg Asp Leu Pro Arg Lys Gly Asp Cys Arg
50 55 60

Ser Gly Asn His Leu Gly Pro Val Ser Gly Ile Tyr Ile Lys Pro Gly
65 70 75 80

Pro Val Tyr Tyr Gln Asp Tyr Thr Gly Pro Val Tyr His Arg Ala Pro
85 90 95

Leu Glu Phe Phe Asp Glu Ala Gln Phe Cys Glu Val Thr Lys Arg Ile
100 105 110

Gly Arg Val Thr Gly Ser Asp Gly Lys Leu Tyr His Ile Tyr Val Cys
115 120 125

Val Asp Gly Cys Ile Leu Leu Lys Leu Ala Lys Arg Gly Thr Pro Arg
130 135 140

Thr Leu Lys Trp Ile Arg Asn Phe Thr Asn Cys Pro Leu Trp Val Thr
145 150 155 160

Ser Cys Ser Asp Asp Gly Ala Ser
165

<210> 3
<211> 16
<212> PRT
<213> Pestivirus sp.

<400> 3
Met Glu Leu Asn His Phe Glu Leu Leu Tyr Lys Thr Ser Lys Gln Lys
1 5 10 15

<210> 4
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligo-histidine purification aid

<400> 4
Met Ala Ser His His His His His His His
1 5 10

<210> 5
<211> 37

<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 5
ataattacta gttgtgctcc agtacctcca ggtgaag 37

<210> 6
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 6
ataattggat cctcgagtta ttacatttgc cgaagagccc tcaggc 46

<210> 7
<211> 593
<212> DNA
<213> Homo sapiens

<400> 7
ataattacta gttgtgctcc agtacctcca ggtgaagatt ctaaagatgt agccgcccca 60
cacagacagc cactcacctc ttcagaacga attgacaaac aaattcggta catcctcgac 120
ggcatctcag ccctgagaaa ggagacatgt aacaagagta acatgtgtga aagcagcaaa 180
gaggcactgg cagaaaacaa cctgaacctt ccaaagatgg ctgaaaaaga tggatgcttc 240
caatctggat tcaatgagga gacttgcctg gtaaaaatca tcactggtct tttggagttt 300
gaggtatacc tagagtacct ccagaacaga tttgagagta gtgaggaaca agccagagct 360
gtgcagatga gtacaaaagt cctgatccag ttcctgcaga aaaaggcaaa gaatctagat 420
gcaataacca cccctgaccc aaccacaaat gccagcctgc tgacgaagct gcaggcacag 480
aaccagtggc tgcaggacat gacaactcat ctcattctgc gcagctttaa ggagttcctg 540
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<210> 8
<211> 347
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligo-histidine purification aid combined with
sequences of Pestivirus and Homo sapiens

<400> 8
Met Ala Ser His His His His His His Pro Val Gly Val Glu Glu
1 5 10 15

Pro Val Tyr Asp Thr Ala Gly Arg Pro Leu Phe Gly Asn Pro Ser Glu
20 25 30

Val His Pro Gln Ser Thr Leu Lys Leu Pro His Asp Arg Gly Arg Gly
35 40 45

Asp Ile Arg Thr Thr Leu Arg Asp Leu Pro Arg Lys Gly Asp Cys Arg
50 55 60

Ser Gly Asn His Leu Gly Pro Val Ser Gly Ile Tyr Ile Lys Pro Gly

65 70 75 80

Pro Val Tyr Tyr Gln Asp Tyr Thr Gly Pro Val Tyr His Arg Ala Pro
85 90 95

Leu Glu Phe Phe Asp Glu Ala Gln Phe Cys Glu Val Thr Lys Arg Ile
100 105 110

Gly Arg Val Thr Gly Ser Asp Gly Lys Leu Tyr His Ile Tyr Val Cys
115 120 125

Val Asp Gly Cys Ile Leu Leu Lys Leu Ala Lys Arg Gly Thr Pro Arg
130 135 140

Thr Leu Lys Trp Ile Arg Asn Phe Thr Asn Cys Pro Leu Trp Val Thr
145 150 155 160

Ser Cys Ala Pro Val Pro Pro Gly Glu Asp Ser Lys Asp Val Ala Ala
165 170 175

Pro His Arg Gln Pro Leu Thr Ser Ser Glu Arg Ile Asp Lys Gln Ile
180 185 190

Arg Tyr Ile Leu Asp Gly Ile Ser Ala Leu Arg Lys Glu Thr Cys Asn
195 200 205

Lys Ser Asn Met Cys Glu Ser Ser Lys Glu Ala Leu Ala Glu Asn Asn
210 215 220

Leu Asn Leu Pro Lys Met Ala Glu Lys Asp Gly Cys Phe Gln Ser Gly
225 230 235 240

Phe Asn Glu Glu Thr Cys Leu Val Lys Ile Ile Thr Gly Leu Leu Glu
245 250 255

Phe Glu Val Tyr Leu Glu Tyr Leu Gln Asn Arg Phe Glu Ser Ser Glu
260 265 270

Glu Gln Ala Arg Ala Val Gln Met Ser Thr Lys Val Leu Ile Gln Phe
275 280 285

Leu Gln Lys Lys Ala Lys Asn Leu Asp Ala Ile Thr Thr Pro Asp Pro
290 295 300

Thr Thr Asn Ala Ser Leu Leu Thr Lys Leu Gln Ala Gln Asn Gln Trp
305 310 315 320

Leu Gln Asp Met Thr Thr His Leu Ile Leu Arg Ser Phe Lys Glu Phe
325 330 335

Leu Gln Ser Ser Leu Arg Ala Leu Arg Gln Met
340 345

<210> 9
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 9
ataattacta gttgttgtga tctgcctcaa acccacagcc 40

<210> 10
<211> 51
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 10
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<210> 11
<211> 533
<212> DNA
<213> Homo sapiens

<400> 11
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atgctcctgg cacagatgag gagaatctct cttttctcct gcttgaagga cagacatgac 120
tttggatttc cccaggagga gtttggcaac cagttccaaa aggctgaaac catccctgtc 180
ctccatgaga tgatccagca gatcttcaat ctcttcagca caaaggactc atctgctgct 240
tgggatgaga ccctcctaga caaattctac actgaactct accagcagct gaatgacctg 300
gaagcctgtg tgatacaggg ggtgggggtg acagagactc ccctgatgaa ggaggactcc 360
attctggctg tgaggaaata cttccaaaga atcactctct atctgaaaga gaagaaatac 420
agcccttgtg cctgggaggt tgtcagagca gaaatcatga gatctttttc tttgtcaaca 480
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<210> 12
<211> 327
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligo-histidine purification aid combined with
sequences of Pestivirus and Homo sapiens

<400> 12
Met Ala Ser His His His His His His Pro Val Gly Val Glu Glu
1 5 10 15

Pro Val Tyr Asp Thr Ala Gly Arg Pro Leu Phe Gly Asn Pro Ser Glu
20 25 30

Val His Pro Gln Ser Thr Leu Lys Leu Pro His Asp Arg Gly Arg Gly
35 40 45

Asp Ile Arg Thr Thr Leu Arg Asp Leu Pro Arg Lys Gly Asp Cys Arg
50 55 60

Ser Gly Asn His Leu Gly Pro Val Ser Gly Ile Tyr Ile Lys Pro Gly
65 70 75 80

Pro Val Tyr Tyr Gln Asp Tyr Thr Gly Pro Val Tyr His Arg Ala Pro
85 90 95

Leu Glu Phe Phe Asp Glu Ala Gln Phe Cys Glu Val Thr Lys Arg Ile
100 105 110

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Gly Arg Val Thr Gly Ser Asp Gly Lys Leu Tyr His Ile Tyr Val Cys
        115                 120                 125

Val Asp Gly Cys Ile Leu Leu Lys Leu Ala Lys Arg Gly Thr Pro Arg
    130                 135                 140

Thr Leu Lys Trp Ile Arg Asn Phe Thr Asn Cys Pro Leu Trp Val Thr
145                 150                 155                 160

Ser Cys Cys Asp Leu Pro Gln Thr His Ser Leu Gly Ser Arg Arg Thr
                165                 170                 175

Leu Met Leu Leu Ala Gln Met Arg Arg Ile Ser Leu Phe Ser Cys Leu
            180                 185                 190

Lys Asp Arg His Asp Phe Gly Phe Pro Gln Glu Glu Phe Gly Asn Gln
        195                 200                 205

Phe Gln Lys Ala Glu Thr Ile Pro Val Leu His Glu Met Ile Gln Gln
    210                 215                 220

Ile Phe Asn Leu Phe Ser Thr Lys Asp Ser Ser Ala Ala Trp Asp Glu
225                 230                 235                 240

Thr Leu Leu Asp Lys Phe Tyr Thr Glu Leu Tyr Gln Gln Leu Asn Asp
                245                 250                 255

Leu Glu Ala Cys Val Ile Gln Gly Val Gly Val Thr Glu Thr Pro Leu
            260                 265                 270

Met Lys Glu Asp Ser Ile Leu Ala Val Arg Lys Tyr Phe Gln Arg Ile
        275                 280                 285

Thr Leu Tyr Leu Lys Glu Lys Lys Tyr Ser Pro Cys Ala Trp Glu Val
    290                 295                 300

Val Arg Ala Glu Ile Met Arg Ser Phe Ser Leu Ser Thr Asn Leu Gln
305                 310                 315                 320

Glu Ser Leu Arg Ser Lys Glu
                325
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